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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,486	12/19/2001	Alan W O'Neill	36-1673	7992
23117 7:	590 08/18/2005		EXAMINER	
NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			HARPER, KEVIN C	
ARLINGTON, VA 22203		ART UNIT	PAPER NUMBER	
			2666	

DATE MAILED: 08/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Assistant Decision	10/018,486	O'NEILL ET AL.					
Office Action Summary	Examiner	Art Unit					
	Kevin C. Harper	2666					
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rid. - If NO period for reply is specified above, the maximum statutory perions for reply within the set or extended period for reply will, by state than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be tineply within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from ute, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status	·						
1) Responsive to communication(s) filed on 25	January 2005.						
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.						
	<u> </u>						
Disposition of Claims							
4) Claim(s) 1-31 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 25,26 and 29-31 is/are allowed. 6) Claim(s) 1-5,7,8,11-14,16,18-23,27 and 28 is/are rejected. 7) Claim(s) 6,9,10,15,17 and 24 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Exami	ner.						
10)☐ The drawing(s) filed on is/are: a)☐ a	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	• • • • • • • • • • • • • • • • • • • •						
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 1/05. 		atent Application (PTO-152)					

Response to Arguments

Applicant's arguments, filed January 25, 2005, with respect to the Acampora reference have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Feder in view of Loehndorf.

The indicated allowability of claims 11, 13 and 18 are withdrawn in regards to Feder in view of Loehndorf. Rejections based on the newly cited reference(s) follow.

Claim Objections

Claims 12, 14 and 16-19 are objected to because in claims 12, 14 and 18-19, "said first network address" should be --said network address--. Appropriate correction is required.

Information Disclosure Statement

Applicant noted an IDS filed December 10, 2003; however, the electronic copies of the PTO-1449 sheets are not located in the application records.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-5, 7-8, 11-14, 16, 18-23 and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feder et al. (US 2002/0089958) in view of Loehndorf, Jr. et al. (US 6,094,437).

Application/Control Number: 10/018,486

Art Unit: 2666

1. Regarding claims 1, 5, 7, 11-14, 16, 18-22 and 27-28, Feder discloses a method of controlling routing of packets to a mobile node in a packet switching network (fig. 3) having packet switching nodes (fig. 19, router) and access nodes (fig. 3, items 66 and 72) for a routing path defined by routing protocol data held in the switching nodes located along the routing path for a given network address (para. 76, lines 1-2; note: fixed IP address for a mobile device). The method comprises generating first routing protocol data for a network address used by the mobile node specifying a characteristic of a route passing through the first access node (para. 64, lines 6-9; para. 66, lines 1-3; para. 284, last four lines). In response to the mobile node receiving service from a second access node, generating second routing protocol data for the network address (para. 73, last five lines; note: the tunnel between items 72 and 74 remains while a new tunnel between a serving IWF and the home IWF is created for subsequent IWF changes during handover; para. 284, last four lines). However, Feder does not specifically disclose that switching nodes along a route are updated with routing protocol data. Loehndorf discloses that nodes along a tunnel route are updated with next hop routing data (fig. 3, LTM; col. 9, lines 36-43). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have routing protocol data held in switching nodes along a path to a first access node and a second access node in the invention of Feder in order to setup and implement a tunnel in a packet network (Loehndorf, col. 9, lines 38-39).

Page 3

- 2. Regarding claims 2-3, in Feder the first and second tunnels (and tunnel identifiers) are unrelated (fig. 3).
- 3. Regarding claim 4, in Feder the first tunnel is established before the mobile node roams to another serving IWF (fig. 3).

Art Unit: 2666

4. Regarding claim 8, in Feder a second tunnel is established based on a control message from the second access node (fig. 14, RADIUS-ACCTG-Start and Start IWF Response from the Serving IWF).

5. Regarding claim 23, in Feder the routing protocol is a link reversal routing protocol (fig. 3, note: bidirectional tunnel links; para. 71, last six lines).

Allowable Subject Matter

- 6. Claims 25-26 and 29-31 are allowed.
- 7. Claims 6, 9-10, 15, 17 and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:00 AM to 7:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao, can be reached at 571-272-3174. The centralized fax number for the Patent Office is 571-273-8300. For non-official communications, the examiner's personal fax number is 571-273-3166 and the examiner's e-mail address is kevin.harper@uspto.gov.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

Application/Control Number: 10/018,486

Art Unit: 2666

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications associated with a customer number is available through Private PAIR only. For more information about the PAIR system, see portal uspto gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-

9197 (toll-free).

Kevin C. Harper

August 15, 2005

DAVIG TON
PRIMARY EXAMINER

Page 5